# CDAT Course [Dec 2004]: Welcome

#### Welcome

- Introductions
- Aims
- House-keeping
- Timetable
- Materials
- Making time for exploration
- Evaluation sheet

#### Who are we?

- Ag Stephens (BADC CDAT user/developer)
- Charles Doutriaux (PCDMI (LLNL) real CDAT developer)
- Thanks to NIEeS:
  - Martin Dove (Director)
  - Stuart Ballard (Science Coordinator)
  - Martin Keegan (Technical Coordinator)
  - Helen Wells (Course Administrator)

#### Aims of the course

#### The course aims to:

- provide a beginner's guide to CDAT
- capture the most useful bits
- allow time for your issues
- provide hands-on experience as well as taught material
- provide a set of notes and references that will allow participants to boldly go out into the world as proud CDAT users

#### What it is not

#### The course is not:

- a comprehensive description of CDAT and all its sub-packages (not enough time)
- intended for advanced CDAT users or developers
- a guide to using VCDAT (but we will mention it)
- supposed to be dull! Help keep us awake by asking lots of questions and making life difficult for us.

## House-keeping

- Timing
- Toilets
- Health & Safety
- Fire Exits
- Breaks
- Lunch
- Evening meal
- Accommodation
- Issues to explore later

# Timetable: Day 1

Morning Sess	rion	Python and CDAT Basics
10:00	10:15	Introduction
10:15	10:45	What is CDAT? Brief Tour
10:45	11:05	Getting started - Installation and environment variables
11:05	11:35	Introduction to python 1
11:35	11:55	Coffee/Tea
11:55	12:30	Introduction to python 2
12:30	13:00	Python exercises
13:00	13:45	Lunch
Afternoon Session		Manipulating Data
13:45	14:15	Data ingestion and output
14:15	15:00	Arrays, variables, axes and missing values
15:00	15:45	Data manipulation exercises
15:45	16:05	Coffee/Tea
16:05	16:50	Averaging and grids
16:50	17:30	A walk through VCDAT
17:30	18:00	Rounding up Day 1

## **Timetable: Day 2**

Morning Sea	ssion 1	Additional CDAT Packages
09:00	09:35	cdscan and cdtime
09:35	10:15	cdscan and cdtime exercises
10:15	10:45	Coffee/Tea
Morning Ses	ssion 2	Plotting with VCS
10:45	11:30	VCS basics
11:30	12:15	VCS tutorials
12:15	12:45	VCS in-depth
12:45	13:30	Lunch
Afternoon Se	ession 1	Additional CDAT Packages
13:30	14:00	cdutil and genutil
14:00	14:30	cdutil and genutil exercises
14:30	14:50	Coffee/Tea
Afternoon Se	ession 2	Advanced features and building on CDAT
14:50	15:10	Binding to other languages (Fortran and C)
15:10	15:40	Building on CDAT
15:40	16:10	Exercising your CDAT knowledge
16:10	16:30	Rounding up Day 2

#### **Materials**

Presentations

Links and Support

Exercises & Solutions

Quick start sheets

### Time for your issues

- Flipchart to record issues that arise along the way.
- Scheduled 30 minutes per day to deal with those.
- But those of you that want to do exercises instead during that time can do.